Orange County
Coastal Regional Sediment Management Plan

Stakeholder Meeting 1
November 17, 2009

Presented By:

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Purpose

- To develop a coastal regional sediment management plan (CRSMP) that provides sufficient information for decision makers to develop policies and/or execute management sub-plans for the future vitality of Orange County beaches and shoreline areas.

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Objectives (1 of 2)

- Obtain/Compile Existing Data/Information
  - Studies, reports, plans, CEQA/NEPA docs
  - Spatial data and information
- Engage Stakeholders
  - Obtain input, data, and information
  - Update them on progress

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Objectives (2 of 2)

- Identify Key Opportunities and Constraints
  - Beach Erosion Concern Areas
  - Potential Sediment Sources
  - Possible RSM projects (e.g., economic improvement)
  - Critical and sensitive habitat areas
- Develop CRSMP Specific to Orange County
  - Relevant to Orange County beaches and shoreline
  - Useful to stakeholders
    - Technically, economically, and environmentally feasible
    - Recommendations for financial viability
    - Suggestions for possible governance approach

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Scope of Work/Deliverables (1 of 2)

- Data Collection and Compilation
  - Project database (GIS, MS Excel, MS Access)
- Outreach Facilitation and Coordination
  - Attendance/participation at 3 to 4 meetings
  - Documentation for 3 to 4 meetings
  - Documentation of ongoing coordination

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Scope of Work/Deliverables (2 of 2)

- Plan Formulation
  - Memorandums outlining progress
- CRSMP Preparation
  - Draft CRSMP
  - Final CRSMP

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Schedule

- Data Collection and Compilation
  - Completion = February 2010
- Plan Formulation
  - Completion = May 2010
- Draft CRSMP Preparation
  - Completion = June 2010
- Final CRSMP Preparation
  - Completion = September 2010
- Outreach Facilitation and Coordination
  - Completion = September 2010

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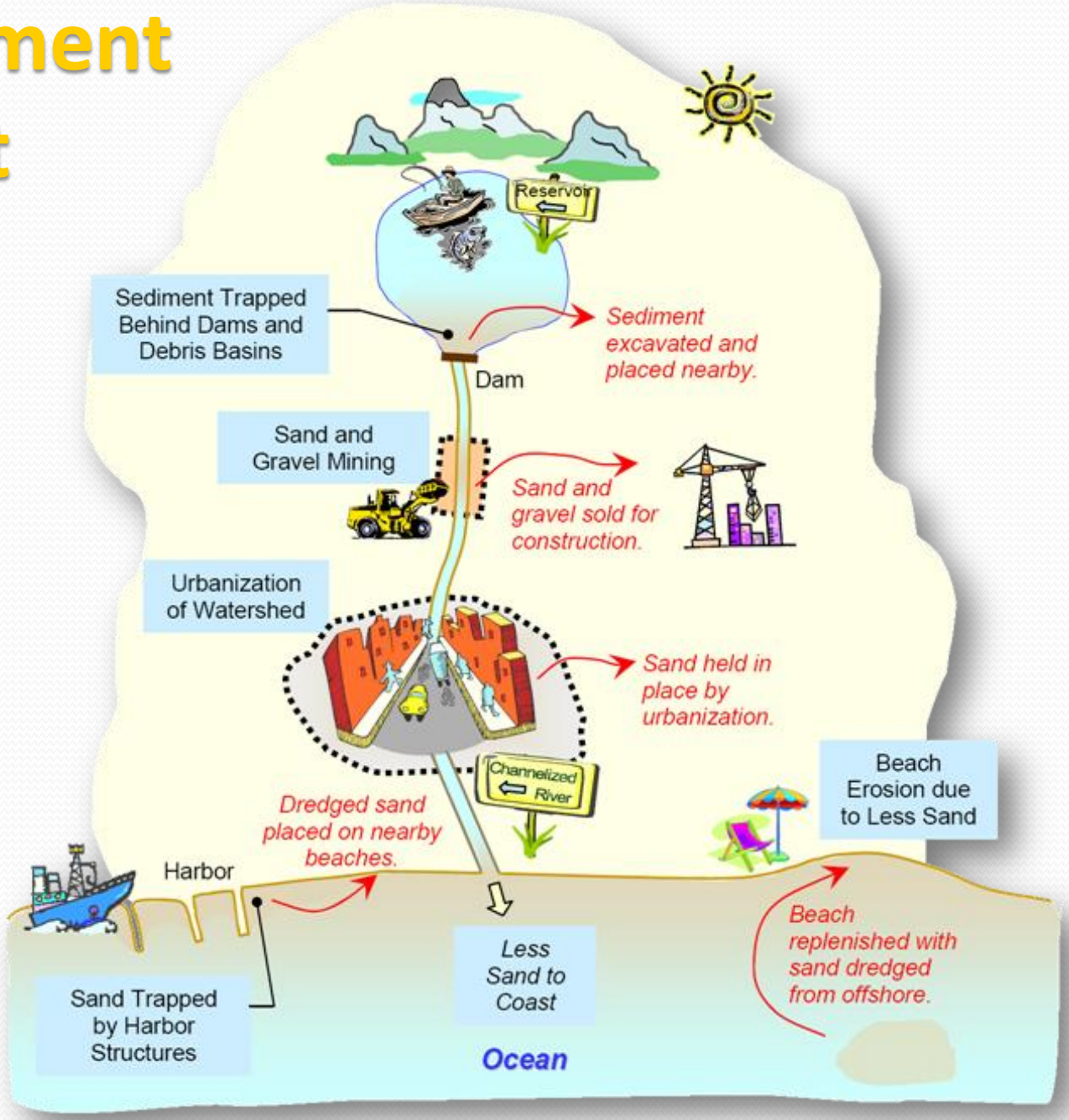
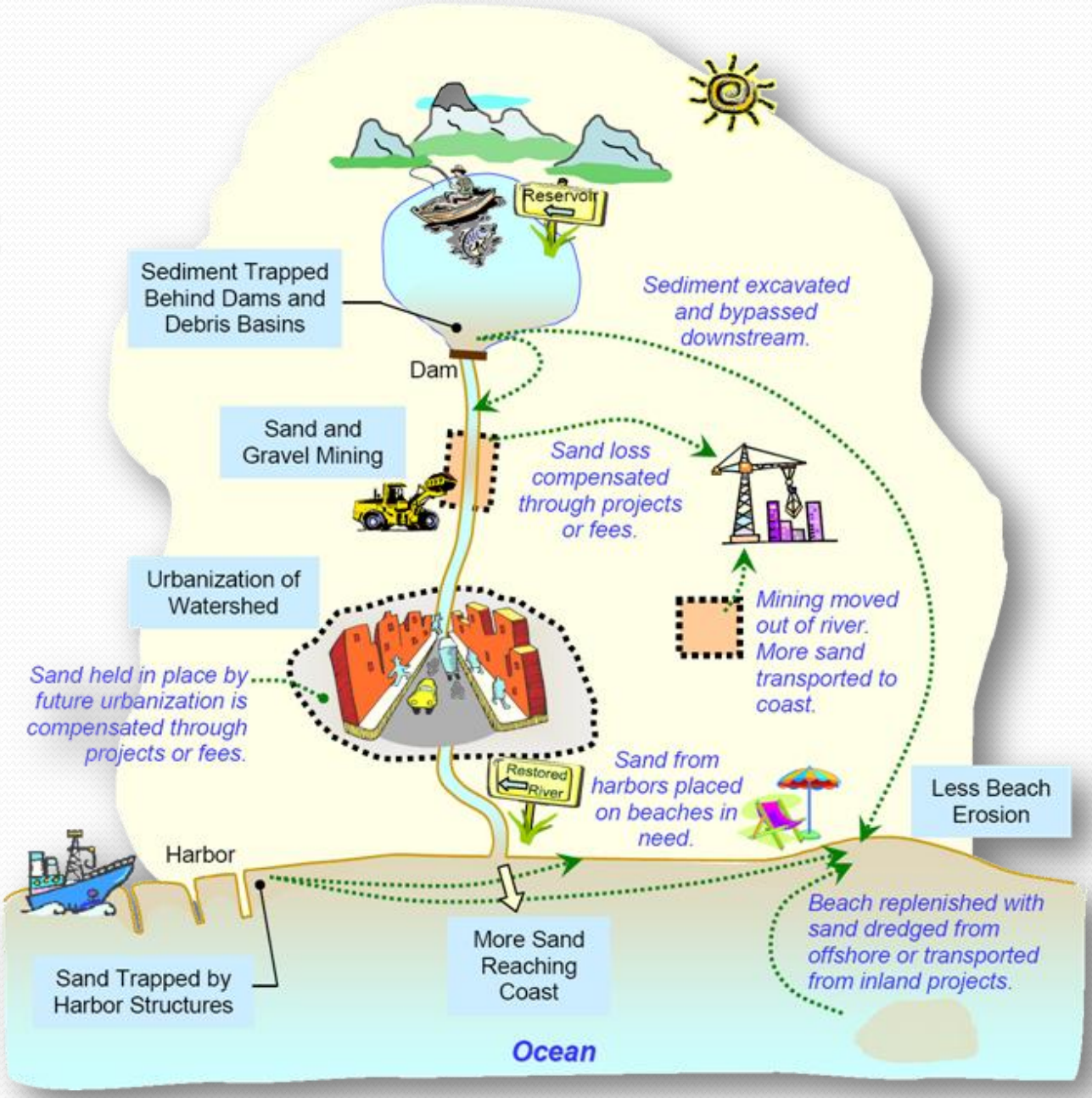
Existing Sediment Management



Proactive Sediment Management




Stakeholder Outreach

Goals

1. Coordinate with you to keep you informed and up to date regarding the progress of project activities
2. Coordinate with you to improve the usefulness of project deliverables
3. Conduct project via a transparent/open process

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Objectives

1. Conduct regular progress meetings
2. Obtain input from you regarding:
   - Potential sediment sources
   - Beach Erosion Concern Areas (BECAs)
   - Possible regional sediment management projects
   - Other issues of concern or relevant information/data
3. Facilitate meetings in an open environment that is easily accessible to stakeholders

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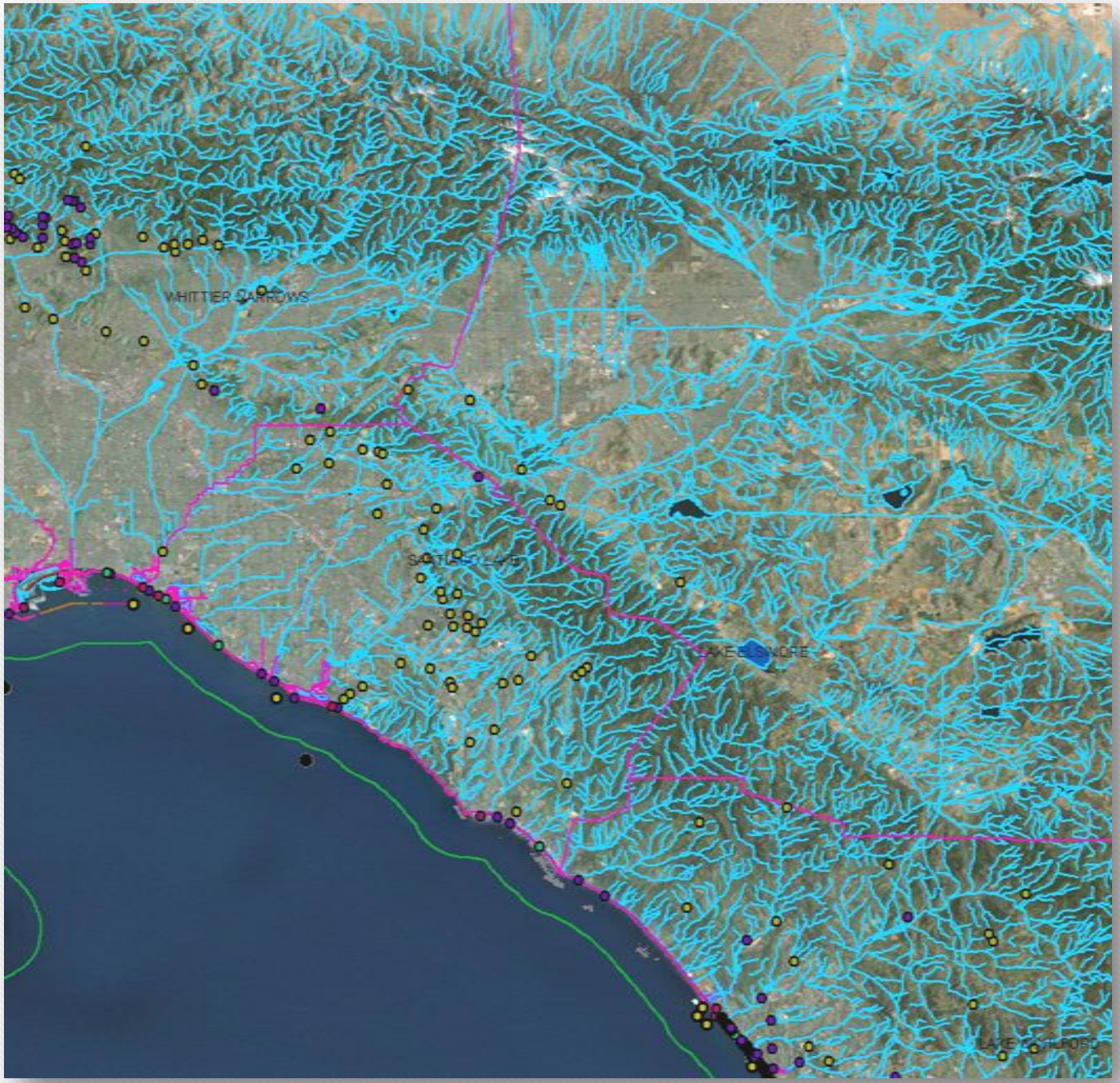
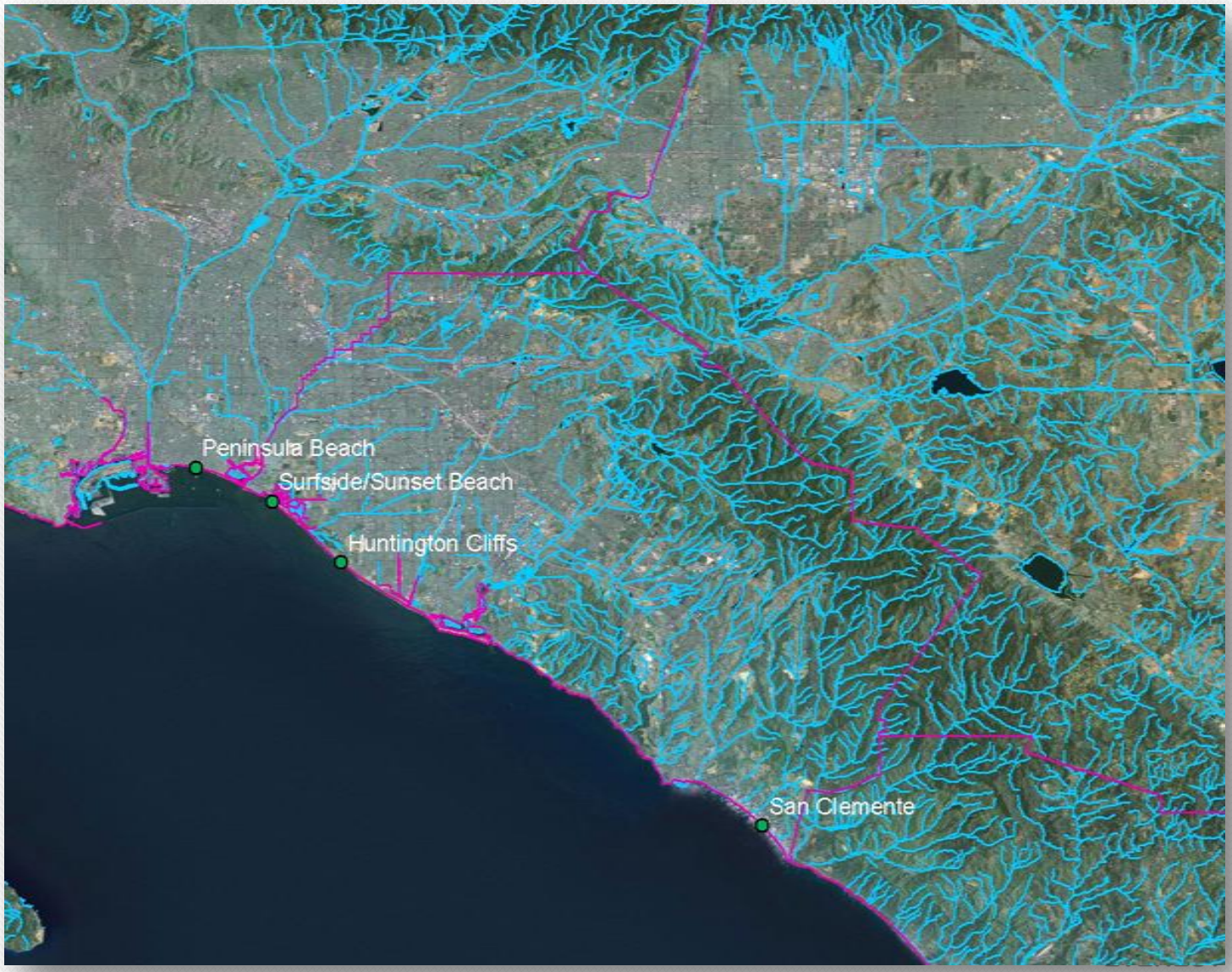
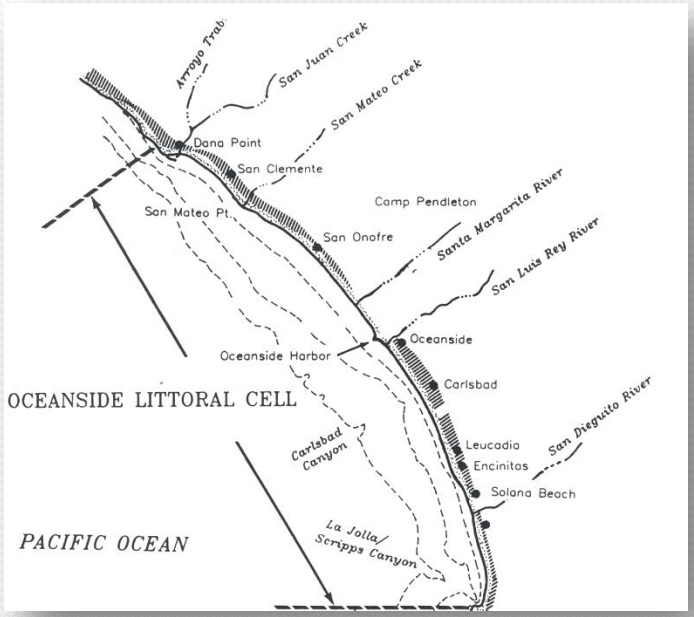
Orange County and Vicinity



BECA Locations



Orange County Littoral Cells



Source: CCSTWS Orange County, 2002;
CCSTWS San Diego County, 1991

Sediment Sources

Habitats


Legend
coast_counties
hydro
Kelp2005
m_mammal
Fish
birds
Bird
Eelgrass

Economics

- Economic Analysis will be performed by Dr. Philip King
- First part of the study will collect data necessary for analysis
- Your help in locating best data and sources would be appreciated

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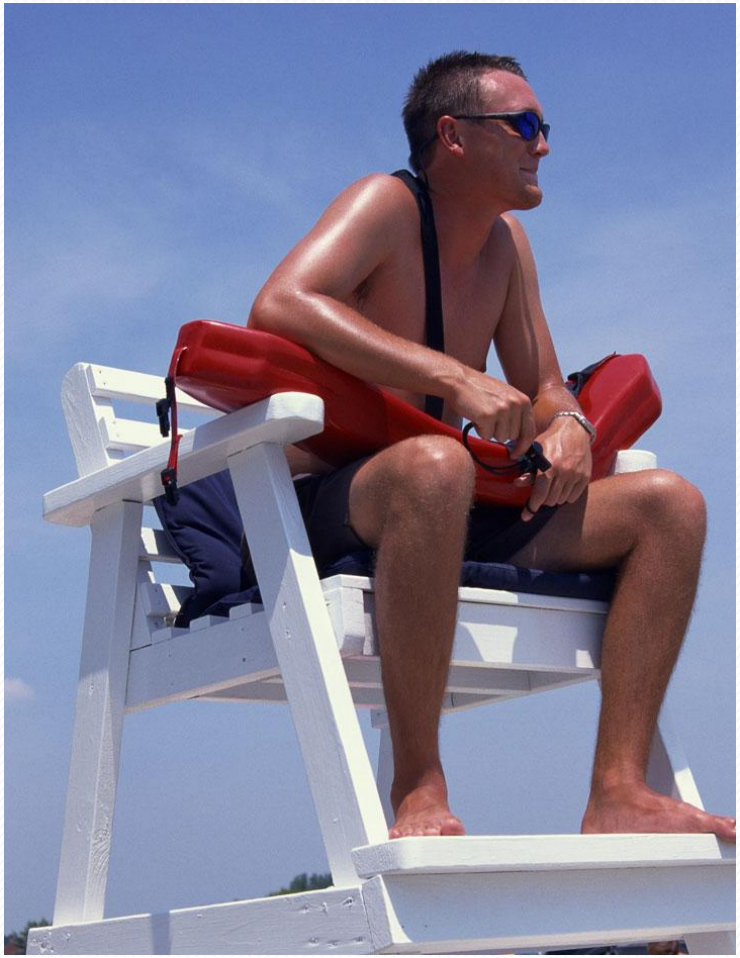
Data Needs--Attendance

- Accurate Attendance data
  - Monthly attendance data
  - Methodology for estimation
  - Breakdown by reach/beach
  - % by recreational activity (e.g., surfing, sand activities, pavement, pier, etc.)
  - % day trippers vs overnighters



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Data Needs--Nourishment

- Estimates of current and past beach widths
- History/analysis of nourishment
- Expected future nourishment needs

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What Economic Analysis would be useful?

- Let Dr. King know what analysis you would like to see?
- What are the critical decisions you need to make ?
- How can an economic analysis help?
- What data/analysis do you need?
- Email: pking@sbcglobal.net

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Environmental Objectives

- **Maintain Healthy Habitats**
- **Protect Sensitive Resources**
- **Avoid/Minimize Impacts**

Orange County Sensitive Resources

- ***Beach***
  - California grunion
  - Tidepools
  - California Least Tern
  - Western Snowy Plover
- ***Nearshore***
  - Surfgrass, Kelp Bed Reefs
  - Commercial/Recreational Fishing
- ***Lagoons, Bays, Estuaries***
  - Nesting Sites
  - Marine Fish Nursery & Foraging

Resource Mapping – Data Considerations

- Nesting Sites
- Grunion Beaches
- Kelp Beds
- Offshore Reefs
- Tidepools
- Fishing Areas

CRSMP APPROACH

- ***Constraints & Opportunities***
  - **Overlay Habitat Resource Map Tools**
- ***Maintain & Protect Resources***
  - **Buffer Sensitive Resources/Piers**
  - **Enhance Sandy Beach**
- ***Adaptive Management***
  - **Lessons Learned (Relevant Projects)**
  - **Focused Monitoring- Feedback**

Stakeholder Input – Time To Play With Dots

- Use dots as follows:
  - Red dots to denote BECAs
  - Blue dots to denote potential sediment sources
  - White dots to indicate possible projects
  - Green dots to identify critical habitat areas
  - Yellow dots for all other information
- Give each dot a unique number
- Write a description for each uniquely numbered dot on the yellow Post-It paper

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